

CAS 80-05-7

Substance name Bisphenol A

Toxicity

Bisphenol A causes reproductive and developmental toxicity in laboratory animals at high doses.^{1,2,3} At low doses that are similar to estimated exposures in people, bisphenol A can affect the developing rodent brain and behavior, prostate and mammary gland development, and cause early onset of puberty in females.¹ There is wide variability in reported results from studies at low doses.^{1,2,3}

Exposure

Bisphenol A is used to manufacture polycarbonate plastics which are used in many children's toys, dishware, and bottles. BPA is also used in epoxy resins used in food can liners and dental sealants.^{4,5} Consumer product testing by the Danish EPA found BPA in polycarbonate components of pacifiers, in infant baby bottles, and in plastic spoons.⁶ In a large biomonitoring study in the USA, BPA was detected in 92.6% of the general population aged 6 years and older. Children had higher levels than adults. This indicates widespread exposure to children and adults.⁷

References

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3. California EPA, Office of Environmental Health Hazard Assessment(OEHHA). Evidence on the developmental and reproductive toxicity of Bisphenol A. October 2009.
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6. Danish Ministry of the Environment, Environmental Protection Agency. Surveys on Chemicals in Consumer Products. Report 102, 2009.
7. Calafat AM, Ye X, Wong LY, Reidy JA, Needham LL. Exposure of the U.S. Population to Bisphenol A and 4-tertiary-Octylphenol: 2003–2004. *Environ Health Perspect* 2008 Jan;116(1):39-44.